

## PATENT COOPERATION TREATY

PCT

## NOTIFICATION OF ELECTION

(PCT Rule 61.2)

From the INTERNATIONAL BUREAU

To:

Assistant Commissioner for Patents  
 United States Patent and Trademark  
 Office  
 Box PCT  
 Washington, D.C.20231  
 ETATS-UNIS D'AMERIQUE

in its capacity as elected Office

<b>Date of mailing</b> (day/month/year) 04 October 2000 (04.10.00)	
<b>International application No.</b> PCT/CN00/00029	<b>Applicant's or agent's file reference</b> PCT990016
<b>International filing date</b> (day/month/year) 18 February 2000 (18.02.00)	<b>Priority date</b> (day/month/year) 23 February 1999 (23.02.99)
<b>Applicant</b> LIU, Chao	

1. The designated Office is hereby notified of its election made:

☒ in the demand filed with the International Preliminary Examining Authority on:

08 August 2000 (08.08.00)

☐ in a notice effecting later election filed with the International Bureau on:2. The election ☒ was☐ was not

made before the expiration of 19 months from the priority date or, where Rule 32 applies, within the time limit under Rule 32.2(b).

<b>The International Bureau of WIPO</b> 34, chemin des Colombettes 1211 Geneva 20, Switzerland Facsimile No.: (41-22) 740.14.35	<b>Authorized officer</b>  Olivia TEFY Telephone No.: (41-22) 338.83.38
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**PATENT COOPERATION TREATY**

**PCT**

**INTERNATIONAL PRELIMINARY EXAMINATION REPORT**

(PCT Article 36 and Rule 70)

REC'D 11 APR 2001

WIPO PCT

JC10 Rec'd PCT/PTO 2 6 OCT 2001

Applicant's or agent's file reference PCT990016		<b>FOR FURTHER ACTION</b> See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)	
International application No. PCT/CN00/00029	International filing date (day/month/year) 18.Feb.2000 ( 18.02.00 )	Priority date (day/month/year) 23.Feb.1999 ( 23.02.99 )	
International Patent Classification (IPC) or national classification and IPC IPC <sup>7</sup> H04L 9/00			
Applicant LIU , Chao			
<p>1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.</p> <p>2. This REPORT consists of a total of <u>4</u> sheets, including this cover sheet.</p> <p><input type="checkbox"/> This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and /or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority ( see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).</p> <p>These annexes consist of a total of _____ sheets.</p>			
<p>3. This report contains indications relating to the following items:</p> <p>I <input checked="" type="checkbox"/> Basis of the report</p> <p>II <input type="checkbox"/> priority</p> <p>III <input type="checkbox"/> Non-establishment of opinion with regard to novelty ,inventive step and industrial applicability</p> <p>IV <input type="checkbox"/> Lack of unity of invention</p> <p>V <input checked="" type="checkbox"/> Reasoned statement under Article 35(2)with regard to novelty ,inventive step or industrial applicability; citations and explanations supporting such statement</p> <p>VI <input checked="" type="checkbox"/> Certain documents cited</p> <p>VII <input type="checkbox"/> Certain defects in the international application</p> <p>VIII <input type="checkbox"/> Certain observations on the international application.</p>			

Date of submission of the demand 08.Aug.2000 ( 08.08.00 )	Date of completion of this report 20.March 2001 ( 20.03.01 )
Name and mailing address of the IPEA/CN 6 Xitucheng Rd., Jimen Bridge, Haidian District, 100088 Beijing, China Facsimile No. 86-10-62019451	Authorized officer GUO , Fenglin Telephone No.86-10-62093810

## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.  
PCT/CN00/00029

## I. Basis of the report

1. With regard to the **elements of** the international application:\*☒ the international application as originally filed☐ the description:

pages \_\_\_\_\_ .as originally filed

pages \_\_\_\_\_ .filed with the demand

pages \_\_\_\_\_ .filed with the letter of \_\_\_\_\_

☐ the claims:

Nos \_\_\_\_\_ .as originally file

Nos \_\_\_\_\_ , as amended (together with any statement) under Article 19

Nos \_\_\_\_\_ .filed with the demand

Nos \_\_\_\_\_ .filed with the letter of \_\_\_\_\_

☐ the drawings:

sheets/fig \_\_\_\_\_ .as originally filed

sheets/fig \_\_\_\_\_ .filed with the demand

sheets/fig \_\_\_\_\_ .filed with the letter of \_\_\_\_\_

☐ the sequence listing part of the description:

pages \_\_\_\_\_ .as originally filed

pages \_\_\_\_\_ .filed with the demand

pages \_\_\_\_\_ .filed with the letter of \_\_\_\_\_

2. with regard to the **language**, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.These elements were available or furnished to this Authority in the following language Chinese which is:☐ the language of a translation furnished for the purposes of international search (under Rule 23.1(b)).☒ the language of publication of the international application (under Rule 48.3(b)).☐ the language of the translation furnished for the purposes of international preliminary examination (under Rules 55.2 and/or 55.3).3. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:☐ contained in the international application in written form.☐ filed together with the international application in computer readable form.☐ furnished subsequently to this Authority in written form.☐ furnished subsequently to this Authority in computer readable form.☐ The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.☐ The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.4. ☐ The amendments have resulted in the cancellation of:☐ the description, pages \_\_\_\_\_☐ the claims No. \_\_\_\_\_☐ the drawings, sheets/fig \_\_\_\_\_5. ☐ This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).\*\*

\* Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17).

\*\* Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.

## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.  
PCT/CN00/00029**V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement**

## 1. Statement:

Novelty (N)

Claims 1, 2

YES

Claims

NO

Inventive step (IS)

Claims 1, 2

YES

Claims

NO

Industrial applicability (IA)

Claims 1, 2

YES

Claims

NO

## 2. Citations and explanations (Rule 70.7)

D1 : US5586185 A

D2 : US4264782 A

The claimed invention relates to a videotext information transmission, and especially the method of videotext information encryption and security transmission in a network. The solution according to the invention comprises recessively compressing and encrypting a videotext to generate a recessive digital videotext information for transmitting to a receiving part; outputting the received recessive digital videotext information by the receiving part to a printing material; and masking a identifier on the printing material based on an azimuth of a given pole point and a polar coordinate to display the recessive digital videotext information in a four dimension variables.

D1 and D2 disclose the general state of encrypting method using a cipher key in the art. The method of encryption and security transmission according to the claimed invention is not known from the cited documents D1 and D2 and is not considered to be obvious to a person skilled in the art. Therefore, the invention claimed in claims 1 and 2 is to be considered novel, to involve an inventive step and also to have industrial applicability.

## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/CN00/00029

## VI. Certain documents cited

## 1. Certain published documents (Rule 70.10)

Application No. Patent No.	Publication date (day/month/year)	Filing date (day/month/year)	Priority date (valid claim) (day/month/year)
US5586185 A	17 Dec., 1996	8 March, 1995	15 March, 1994
<u>US4264782 A</u>	28 April, 1981	29 June, 1979	

## 2. Non-written disclosures (Rule 70.9)

Kind of non-written disclosure	Date of non-written disclosure (day/month/year)	Date of written disclosure referring to non-written disclosure (day/month/year)
_____	_____	_____

# 专 利 合 作 条 约

## PCT

### 国际初步审查报告

(PCT 条约 36 和细则 70)

REC'D 11 APR 2001

WIPO

PCT

申请人或代理人的档案号 PCT990016	关于后续行为 参见“传送国际初步审查报告的通知”(PCT/IPEA/416 表)	
国际申请号 PCT/CN00/00029	国际申请日 (日/月/年) 18.2 月 2000 ( 18.02.00 )	优先权日 (日/月/年) 23.2 月 1999 ( 23.02.99 )
国际专利分类(IPC)或者国家分类和 IPC 两种分类 IPC <sup>7</sup> H04L 9/00		
申请人 刘 超		

1. 本国际初步审查单位已作出国际初步审查报告并依照条约第 36 条将其传送给申请人。


2. 本报告共计 4 页, 包括扉页。

☐ 本报告还有附件, 即修改后的并且作为本报告基础的说明书修改页、权利要求书修改页和/或附图修改页, 和/或对本国际初步审查单位所作出的更正页(见 PCT 细则 70.16 和行政规程 607)。

这些附件共计 \_\_\_\_\_ 页

3. 本报告包括关于下列各项的内容:

- I ☒ 报告的基础
- II ☐ 优先权
- III ☐ 不作出关于新颖性、创造性和工业实用性的意见
- IV ☐ 缺乏发明的单一性
- V ☒ 按条约 35(2)关于新颖性、创造性或工业实用性的推断性意见; 支持这种意见的引证和解释
- VI ☒ 引用的某些文件
- VII ☐ 国际申请中的某些缺陷
- VIII ☐ 对国际申请的某些意见

提交要求书的日期 08.8 月 2000 ( 08.08.00 )	完成本报告的日期 20March,2001(20.03.01)
国际初步审查单位名称和地址 IPEA/CN 中国北京市海淀区西土城路 6 号(100088) 传真号: 86-10-62019451	受权官员 郭凤麟 电话号码: 10-62093810 

# 国际初步审查报告

国际申请号

PCT/CN00/00029

## I. 报告的基础

### 1. 关于国际申请中各个部分：\*

☒ 原始提交的国际申请。

☐ 说明书， 第 \_\_\_\_\_ 页，按 原始提交的，  
第 \_\_\_\_\_ 页，随 要求书提交的，  
第 \_\_\_\_\_ 页，随 \_\_\_\_\_ 的信件提交的。

☐ 权利要求， 第 \_\_\_\_\_ 项，按 原始提交的，  
第 \_\_\_\_\_ 项，按 条约第 19 条修改的(附有说明)，  
第 \_\_\_\_\_ 项，随 要求书提交的，  
第 \_\_\_\_\_ 项，随 \_\_\_\_\_ 的信件提交的。

☐ 附图， 第 \_\_\_\_\_ 页，按原始提交的，  
第 \_\_\_\_\_ 页，随要求书提交的，  
第 \_\_\_\_\_ 页，随 \_\_\_\_\_ 的信件提交的。

☐ 说明书中的序列表部分  
第 \_\_\_\_\_ 页，按原始提交的，  
第 \_\_\_\_\_ 页，随要求书提交的，  
第 \_\_\_\_\_ 页，随 \_\_\_\_\_ 的信件提交的。

### 2. 关于所使用的语言，除本项下另有说明外，本国际初步审查单位所获得的或者已向本国际初步审查单位提交的上述所有部分，所使用的语言均为提交本国际申请时所使用的语言。

本国际初步审查单位所获得的或向本国际初步审查单位提交的这些部分所使用的语言是 中文，  
这种语言是

☐ 为了国际检索而提交的译本所使用的语言（细则 23.1（b））。

☒ 本国际申请公布时所使用的语言（细则 48.3（b））。

☐ 为了国际初步审查而提交的译本所使用的语言（细则 55.2 和/或 55.3）。

### 3. 关于本国际申请中所公开的任何核甞酸和/或氨基酸的序列，本国际初步审查是根据下面的序列表进行的：

☐ 国际申请中所包含的书写形式的序列表。

☐ 与国际申请同时提交的计算机可读形式的序列表。

☐ 后来以书写形式向本国际初步审查单位提交的序列表。

☐ 后来以计算机可读的形式向本国际初步审查单位提交的序列表。

☐ 已提交了关于后来提交的书写形式的序列表没有超出原始提交的国际申请所公开的范围的说明。

☐ 已提交了关于以计算机可读的形式记载的信息是与书写形式的序列表相同的说明。

### 4. 修改删除了以下内容的：

☐ 说明书， 第 \_\_\_\_\_ 页

☐ 权利要求， 第 \_\_\_\_\_ 项

☐ 附图， 第 \_\_\_\_\_ 页，图 \_\_\_\_\_

### 5. ☐ 由于（某些）修改被认为超出了原始公开的范围，如补充栏所示，因此本报告是按照如同没有修改的情况作出的(细则 70.2(c))。 \*\*

\* 按照条约第 14 条答复通知时向受理局提交的替换页，在本报告中被称为“原始提交的”，这些替换页不作为本报告的附件，因为它们没有包含修改（细则 70.16 和 70.17）。

\*\* 任何包含这种修改的替换页，都必须在第 1 项中指明，并作为本报告的附件。

# 国际初步审查报告

国际申请号

PCT/CN00/00029

## V. 按条约 35 条(2)关于新颖性、创造性或工业实用性的推断性意见：支持这种意见的引证和解释

### 1. 意见

新颖性(N)	权利要求 1, 2	是
	权利要求	否
创造性(IS)	权利要求 1, 2	是
	权利要求	否
工业实用性(IA)	权利要求 1, 2	是
	权利要求	否

### 2. 引证和解释 (细则 70.7 )

D1 : US5586185 A

D2 : US4264782 A

本发明涉及一种图文信息传输，特别是涉及图文信息加密及在网络中安全传输的方法。根据本发明的解决方案是隐形压缩加密图文信息以产生隐形数字图文信息，传输给接收方；接收方输出接收的隐形数字图文信息到印件上；和按约定的极点及极坐标的方位将识读器罩在该印件上，以四维变量图文显示隐形数字图文信息。

D1 和 D2 公开了现有技术的使用密钥加密的一般状况，从中不能得到本发明的加密及传输方法，因此对于本领域的技术人员来说不是显而易见的，即本发明具有新颖性和创造性以及具有实用性。



# 国际初步审查报告

国际申请号

PCT/CN00/00029

## VI. 某些引用文件

### 1. 某些已公布的文件(细则 70.10)

<u>申请号</u> <u>专利号</u>	<u>公布日</u> <u>(日/月/年)</u>	<u>申请日</u> <u>(日/月/年)</u>	<u>优先权日(有效的)</u> <u>(日/月/年)</u>
US5586185 A	17.12 月 1996	08.3 月 1995	15.3 月 1994
US4264782 A	28.4 月 1981	29.6 月 1979	

### 2. 非书面公开(细则 70.9)

<u>非书面公开的种类</u>	<u>非书面公开的日期</u> <u>(日/月/年)</u>	<u>述及非书面公开的</u> <u>书面公开的日期</u> <u>(日/月/年)</u>
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